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TECHNICAL DATA SHEET 479

Page 1 of 2

Acrylamide & N,N'-Methylenebisacrylamide

Polysciences offers Electrophoresis grade Acrylamide and N,N'-Methylenebisacrylamide (Bis) in many convenient configurations and quantities.

Acrylamide, Electro Pure™ Triply Recrystallized

Assay:	99.9% min
pH (1% soln.):	6.5 ± 0.5
Conductivity (35% soln.):	2 µmho max
OD _{252nm} (7mM soln.):	1.15 max
Free acrylic:	0.001% max

Bis, Electro Pure™

Assay:	99.9% min
pH (1%):	5.5 min
Heavy metals:	1.5ppm max
Free acrylic:	0.1% max
OD _{290nm} 1%:	0.5 max

Acrylamide/Bis Powder Premixes

Polysciences has combined its ultra pure Acrylamide and Bis powders in premeasured premixed ratios of 19:1, 29:1, 37.5:1. Only #00019 and #00719 are used in the powder formulations. The premixes come in an amber glass bottle to which you directly add water to 100ml to make 100ml of a 30% solution in the desired ratio. This reduces hazardous exposure to neurotoxic dust.

Acrylamide 40% Solution

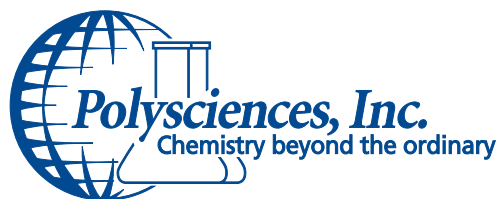
- #00019 used in formulation
- Only 18 megaohm water used in formulation
- Sterile filtered
- Safety coated, amber glass bottle

Bis 2% Solution

- #00719 used in formulation
- Only 18 megaohm water used in formulation
- Sterile filtered
- Safety coated, amber glass bottle

INSTRUCTIONS

Liquid solutions of Acrylamide and Bis reduce exposure to neurotoxic dust by eliminating the need for handling and weighing of solid acrylamide and/or bis. Eliminate the time-consuming steps of formulation, deionization and filtration with Polysciences "Ready-to-go" solutions - simply pour and dilute!



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TECHNICAL DATA SHEET 479

Page 2 of 2

Liquid solution of acrylamide and bis can be used directly in your gel recipe. For example:

1. 100ml of 40% acrylamide solution contains

$$\frac{40\text{g acrylamide}}{100\text{mL solution}} \quad \text{therefore} \quad \frac{1\text{g acrylamide}}{2.5 \text{ mL solution}}$$

2. 100mL of 2% bis solution contains

$$\frac{2\text{g bis}}{100\text{mL solution}} \quad \text{therefore} \quad \frac{1\text{g bis}}{2.5\text{mL solution}}$$

3. To make a 10% gel with 2.5% crosslinking you need 9.75g acrylamide and 0.25g bis:

1g acrylamide in 2.5ml

$$9.75\text{g} \times \frac{2.5\text{mL}}{1\text{g}} = 24.375\text{mL acrylamide 40\% solution}$$

1g bis in 50mL

$$0.25\text{g} \times \frac{50\text{mL}}{1\text{g}} = 12.5 \text{ mL bis 2\% solution}$$

4. Therefore, 24.4mL acrylamide 40% solution

$$+ \frac{12.5\text{mL bis 2\% solution}}{\quad}$$

36.9mL add water/buffer to 100mL will provide you with the same 10%, 2.5% crosslinked gel.

ORDERING INFORMATION:

Cat. #	Description	Size	
00019	Acrylamide	100g, 500g	(bulk available upon request)
00719	Bis	25g, 100g	(bulk available upon request)
17452	Acrylamide/Bis Powder Premix 19:1	6 x 30g	
19847	Acrylamide/Bis Powder Premix 29:1	30g, 6 x 30g	
17451	Acrylamide/Bis Powder Premix 37.5:1 (or 30:0.8)	30g, 6 x 30g	

TO ORDER

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